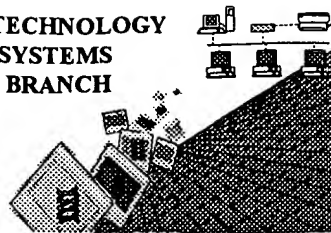


719

1645

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

**RECEIVED**

JUL 23 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/781,891C

Source:

1602

Date Processed by STIC:

7/12/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/781,891C

DATE: 07/12/2002  
TIME: 10:39:31

Input Set : A:\13381.seq.txt  
Output Set: N:\CRF3\07122002\I781891C.raw

PP. 2, 6

**Does Not Comply  
Corrected Diskette Needed**

3 <110> APPLICANT: Delaney, William IV  
4 Locarnini, Stephen Alister  
5 Chen, Robert Yung Ming  
6 Bartholomeusz, Angeline  
7 Isom, Harriet  
9 <120> TITLE OF INVENTION: An assay  
11 <130> FILE REFERENCE: 2378750/EJH  
13 <140> CURRENT APPLICATION NUMBER: 09/781,891C  
14 <141> CURRENT FILING DATE: 2001-02-02  
16 <150> PRIOR APPLICATION NUMBER: 60/179,948  
17 <151> PRIOR FILING DATE: 2000-02-03  
19 <160> NUMBER OF SEQ ID NOS: 22  
21 <170> SOFTWARE: PatentIn version 3.0  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 23  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer  
31 <400> SEQUENCE: 1  
32 gcctcatttt gtgggtcacc ata 23  
34 <210> SEQ ID NO: 2  
35 <211> LENGTH: 20  
36 <212> TYPE: DNA  
37 <213> ORGANISM: Artificial Sequence  
39 <220> FEATURE:  
40 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer  
42 <400> SEQUENCE: 2  
43 tctctgacat actttccaat 20  
45 <210> SEQ ID NO: 3  
46 <211> LENGTH: 18  
47 <212> TYPE: DNA  
48 <213> ORGANISM: Artificial Sequence  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer  
53 <400> SEQUENCE: 3;  
54 tgcacgattc ctgctcaa 18  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 20  
58 <212> TYPE: DNA  
59 <213> ORGANISM: Artificial Sequence  
61 <220> FEATURE:  
62 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer

## RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

64 <400> SEQUENCE: 4  
65 tttctcaaag gtggagacag 20  
67 <210> SEQ ID NO: 5  
68 <211> LENGTH: 181  
69 <212> TYPE: PRT  
70 <213> ORGANISM: Artificial Sequence  
72 <220> FEATURE:  
73 <223> OTHER INFORMATION: Description of Artificial Sequence:Reference HBV  
74 (Formula I)  
76 <220> FEATURE:  
77 <221> NAME/KEY: variant  
78 <222> LOCATION: (2)..(2)  
79 <223> OTHER INFORMATION: X = N or D  
81 <220> FEATURE:  
82 <221> NAME/KEY: variant  
83 <222> LOCATION: (17)..(17)  
84 <223> OTHER INFORMATION: X = I or P  
86 <220> FEATURE:  
87 <221> NAME/KEY: variant  
88 <222> LOCATION: (29)..(29)  
89 <223> OTHER INFORMATION: X = I or V  
91 <220> FEATURE:  
92 <221> NAME/KEY: variant  
93 <222> LOCATION: (35)..(35)  
94 <223> OTHER INFORMATION: X = S or D  
96 <220> FEATURE:  
97 <221> NAME/KEY: variant  
98 <222> LOCATION: (44)..(44)  
99 <223> OTHER INFORMATION: X = T or N  
101 <220> FEATURE:  
102 <221> NAME/KEY: variant  
103 <222> LOCATION: (46)..(46)  
104 <223> OTHER INFORMATION: X = R or N  
106 <220> FEATURE:  
107 <221> NAME/KEY: variant  
108 <222> LOCATION: (47)..(47)  
109 <223> OTHER INFORMATION: X = N or I  
111 <220> FEATURE:  
112 <221> NAME/KEY: variant  
113 <222> LOCATION: (48)..(48)  
114 <223> OTHER INFORMATION: X = any amino acid  
116 <220> FEATURE:  
117 <221> NAME/KEY: variant  
118 <222> LOCATION: (49)..(49)  
119 <223> OTHER INFORMATION: X = N  
121 <220> FEATURE:  
122 <221> NAME/KEY: variant  
123 <222> LOCATION: (50)..(50)  
124 <223> OTHER INFORMATION: X = N or Y or H

*Glx, not Xaa, is at location 17*

*"Glx" can only represent Glutamine or Glutamic Acid*

*Glx is at location 50 (same error as above)*

## RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

126 <220> FEATURE:  
127 <221> NAME/KEY: variant  
128 <222> LOCATION: (52)..(52) /  
129 <223> OTHER INFORMATION: X = H or Y  
131 <220> FEATURE:  
132 <221> NAME/KEY: variant  
133 <222> LOCATION: (53)..(53) /  
134 <223> OTHER INFORMATION: X = G or R  
136 <220> FEATURE:  
137 <221> NAME/KEY: variant  
138 <222> LOCATION: (54)..(56) /  
139 <223> OTHER INFORMATION: X = any amino acid  
141 <220> FEATURE:  
142 <221> NAME/KEY: variant  
143 <222> LOCATION: (57)..(57) /  
144 <223> OTHER INFORMATION: X = D or N  
146 <220> FEATURE:  
147 <221> NAME/KEY: variant  
148 <222> LOCATION: (60)..(60) /  
149 <223> OTHER INFORMATION: X = D or N  
151 <220> FEATURE:  
152 <221> NAME/KEY: variant  
153 <222> LOCATION: (61)..(61) /  
154 <223> OTHER INFORMATION: X = S or Y  
156 <220> FEATURE:  
157 <221> NAME/KEY: variant  
158 <222> LOCATION: (65)..(65) /  
159 <223> OTHER INFORMATION: X = N or Q  
161 <220> FEATURE:  
162 <221> NAME/KEY: variant  
163 <222> LOCATION: (71)..(71)  
164 <223> OTHER INFORMATION: X = L or M  
166 <220> FEATURE:  
167 <221> NAME/KEY: variant  
168 <222> LOCATION: (75)..(75) /  
169 <223> OTHER INFORMATION: X = K or Q  
171 <220> FEATURE:  
172 <221> NAME/KEY: variant  
173 <222> LOCATION: (77)..(77) /  
174 <223> OTHER INFORMATION: X = Y or F  
176 <220> FEATURE:  
177 <221> NAME/KEY: variant  
178 <222> LOCATION: (79)..(79) /  
179 <223> OTHER INFORMATION: X = R or W  
181 <220> FEATURE:  
182 <221> NAME/KEY: variant  
183 <222> LOCATION: (84)..(84) /  
184 <223> OTHER INFORMATION: X = Y or L  
186 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

187 <221> NAME/KEY: variant  
188 <222> LOCATION: (85)..(85) ✓  
189 <223> OTHER INFORMATION: X = S or A  
191 <220> FEATURE:  
192 <221> NAME/KEY: variant  
193 <222> LOCATION: (89)..(89) ✓  
194 <223> OTHER INFORMATION: X = I or V  
196 <220> FEATURE:  
197 <221> NAME/KEY: variant  
198 <222> LOCATION: (95)..(95) ✓  
199 <223> OTHER INFORMATION: X = I or L  
201 <220> FEATURE:  
202 <221> NAME/KEY: variant  
203 <222> LOCATION: (99)..(99) ✓  
204 <223> OTHER INFORMATION: X = V or G  
206 <220> FEATURE:  
207 <221> NAME/KEY: variant  
208 <222> LOCATION: (114)..(114) ✓  
209 <223> OTHER INFORMATION: X = C or L  
211 <220> FEATURE:  
212 <221> NAME/KEY: variant  
213 <222> LOCATION: (115)..(115) ✓  
214 <223> OTHER INFORMATION: X = A or S  
216 <220> FEATURE:  
217 <221> NAME/KEY: variant ✓  
218 <222> LOCATION: (116)..(116)  
219 <223> OTHER INFORMATION: X = V or M  
221 <220> FEATURE:  
222 <221> NAME/KEY: variant ✓  
223 <222> LOCATION: (117)..(117)  
224 <223> OTHER INFORMATION: X = V or T  
226 <220> FEATURE:  
227 <221> NAME/KEY: variant  
228 <222> LOCATION: (118)..(118) ✓  
229 <223> OTHER INFORMATION: X = R or C  
231 <220> FEATURE:  
232 <221> NAME/KEY: variant  
233 <222> LOCATION: (122)..(122)  
234 <223> OTHER INFORMATION: X = F or P  
236 <220> FEATURE:  
237 <221> NAME/KEY: variant  
238 <222> LOCATION: (125)..(125) ✓  
239 <223> OTHER INFORMATION: X = L or V  
241 <220> FEATURE:  
242 <221> NAME/KEY: variant  
243 <222> LOCATION: (126)..(126) ✓  
244 <223> OTHER INFORMATION: X = A or V  
246 <220> FEATURE:  
247 <221> NAME/KEY: variant

## RAW SEQUENCE LISTING

DATE: 07/12/2002

PATENT APPLICATION: US/09/781,891C

TIME: 10:39:31

Input Set : A:\13381.seq.txt

Output Set: N:\CRF3\07122002\I781891C.raw

248 <222> LOCATION: (128)..(128) ✓  
249 <223> OTHER INFORMATION: X = S or A  
251 <220> FEATURE:  
252 <221> NAME/KEY: variant ?  
253 <222> LOCATION: (130)..(130)  
254 <223> OTHER INFORMATION: M = amino acid 550  
256 <220> FEATURE:  
257 <221> NAME/KEY: variant  
258 <222> LOCATION: (133)..(133) ✓  
259 <223> OTHER INFORMATION: X = V or L or M  
261 <220> FEATURE:  
262 <221> NAME/KEY: variant  
263 <222> LOCATION: (138)..(138) ✓  
264 <223> OTHER INFORMATION: X = K or R  
266 <220> FEATURE:  
267 <221> NAME/KEY: variant  
268 <222> LOCATION: (139)..(139) ✓  
269 <223> OTHER INFORMATION: X = S or T  
271 <220> FEATURE:  
272 <221> NAME/KEY: variant ✓  
273 <222> LOCATION: (140)..(140)  
274 <223> OTHER INFORMATION: X = V or G  
276 <220> FEATURE:  
277 <221> NAME/KEY: variant  
278 <222> LOCATION: (141)..(141) ✓  
279 <223> OTHER INFORMATION: X = Q or E  
281 <220> FEATURE:  
282 <221> NAME/KEY: variant  
283 <222> LOCATION: (143)..(143) ✓  
284 <223> OTHER INFORMATION: X = L or S or R  
286 <220> FEATURE:  
287 <221> NAME/KEY: variant ✓  
288 <222> LOCATION: (145)..(145)  
289 <223> OTHER INFORMATION: X = S or F  
291 <220> FEATURE:  
292 <221> NAME/KEY: variant ✓  
293 <222> LOCATION: (147)..(147)  
294 <223> OTHER INFORMATION: X = F or Y  
296 <220> FEATURE:  
297 <221> NAME/KEY: variant ✓  
298 <222> LOCATION: (148)..(148)  
299 <223> OTHER INFORMATION: X = T or A  
301 <220> FEATURE:  
302 <221> NAME/KEY: variant  
303 <222> LOCATION: (149)..(149) ✓  
304 <223> OTHER INFORMATION: X = A or S  
306 <220> FEATURE:  
307 <221> NAME/KEY: variant  
308 <222> LOCATION: (150)..(150)

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/781,891C

DATE: 07/12/2002  
TIME: 10:39:32

Input Set : A:\13381.seq.txt  
Output Set: N:\CRF3\07122002\I781891C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 2,29,35,44,46,47,48,49,52,53,54,55,56,57,60,61,65,71,75,77  
Seq#:5; Xaa Pos. 79,84,85,89,95,99,114,115,116,117,118,122,125,126,128,133  
Seq#:5; Xaa Pos. 138,139,140,141,143,145,147,148,149,150,151,152,153,156  
Seq#:5; Xaa Pos. 157,162,164,174,179  
Seq#:6; Xaa Pos. 2,3,4,5,8,10,13,18,19,21,24,26,27,30,33,40,44,45,46,47,49  
Seq#:6; Xaa Pos. 51,52,53,56,57,59,61,63,64,68,70,78,85,100,105,110,112,113  
Seq#:6; Xaa Pos. 114,118,119,120,122,125,126,127,128,131,133,134,136,137  
Seq#:6; Xaa Pos. 140,143,144,146,155,158,159,160,161,165,166,168,170,174  
Seq#:6; Xaa Pos. 177,178,182,183,184,185,187,189,192,193,194,197,198,200  
Seq#:6; Xaa Pos. 202,204,205,206,207,209,210,213,220,221,223,224,225  
Seq#:7; Xaa Pos. 3,10,11,15,21,27,45,48,59,62,65,76,86,96,134,153,164,182  
Seq#:7; Xaa Pos. 203,208,220,222,225,228,243,249,254  
Seq#:8; Xaa Pos. 2,49,52,53,55,56,65,69,75,195,209,211,222